	Application No. Applicant(s)		
Notice of Allowahility	09/801,310		
Notice of Allowability	Examiner	Art Unit	
	Jean B. Corrielus	2637	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in (5) or other appropriate commun RIGHTS. This application is su	this application. If not inclunication will be mailed in du	ided e course, THIS
1. This communication is responsive to <u>9/14/05</u> .			,
2. X The allowed claim(s) is/are <u>1-15,17-34,36,37 and 39, rer</u>	numbered as 1-14, 17, 15, 16, 1	8-32, 34, 33, 35 and 36, re	spectively.
3. \boxtimes The drawings filed on <u>07 March 2001</u> are accepted by th	ne Examiner.		•
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ive been received. Ive been received in Application	No	cation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the r	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	erson's Patent Drawing Review er's Amendment / Comment or i 1.84(c)) should be written on the	n the Office action of drawings in the front (not the	ne back) of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMEN' 	osit of BIOLOGICAL MATE TFOR THE DEPOSIT OF BIOL	RIAL must be submitted. LOGICAL MATERIAL.	Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date) 6. ⊠ Interview Sur Paper No./N √08), 7. ⊠ Examiner's A	lail Date mendment/Comment tatement of Reasons for Al lean/B Confielus Primary Examiner Art Unit: 2637	Iowance

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with S. Peter Ludwig on 10/27/05.

The application has been amended as follows:

IN THE CLAIMS:

Claim 3, line 4, "address" has been changed to --addresses--.

Claim 14, line 2, --digital processing-- has been inserted after second.

Claim 15, line 12, --digital processing-- has been inserted after second; line 14, -- at least-- has been inserted before "first"; line 14, --digital processing-- has been inserted after second.

Claim 21, line 4, "address" has been changed to --addresses--.

Claim 37 has been amended as follow:

--37. (Amended) An interpolation device for processing a sequence of input samples provided at a given input period, and having an output period that is substantially independent of the input period, the device comprising:

a finite impulse response (FIR) filter, adapted to process the input samples so as to generate a sequence of intermediate results in the filter at successive times corresponding to the output period, and to update the intermediate results for each of the input samples, and to output as an output sample, once in each output period, the intermediate result that was generated at an earliest one of the successive times among the intermediate results in the filter:

a timing controller, which is coupled to determine a fractional interval indicative of a phase offset between the input period and the output period, wherein the filter generates and updates the intermediate results responsive to the fractional interval determined by the timing controller.—

Claim 38 has been canceled.

Claim 39 has been amended as follow:

--39. (Amended) A method for filtering a sequence of input samples provided at a given input period, comprising:

processing the input samples in a finite impulse response (FIR) filter so as to generate a sequence of intermediate results in the filter at successive times corresponding to an output period of the filter, which is substantially independent of the input period;

updating the intermediate results for each of the input samples;

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and outputting as an output sample, once in each output period, the intermediate result that was generated at an earliest one of the successive times among the intermediate results in the filter;

determining a fractional interval indicative of a phase offset between the input period and the output period, wherein processing and updating the intermediate results comprises computing the intermediate results responsive to the fractional interval.--

Claim 40 has been canceled.

Reasons for allowance

2. The following is an examiner's statement of reasons for allowance: an interpolation method and apparatus and a multichannel apparatus and method are disclosed. The closest prior art, De La Bourdonnaye, US Patent No. 5,212,687 and Snell US patent No. 5,764,113, disclose similar method and apparatus. However, De La Bourdonnaye and Snell do not teach or fairly suggest the limitations recited in claim 1, lines 7-16 and similar limitations recited in claim 19, the limitations of "a timing controller, which is coupled to determine a fractional interval indicative of a phase offset between the input period and the output period, wherein the filter generates and updates the intermediate results responsive to the fractional interval determined by the timing controller" recited in claim 37 and similar limitations recited in claim 39, are neither anticipated nor rendered obvious by De La Bourdonnaye and Snell.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-3020. The examiner can normally be reached on Maxi-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jean B Corrielus Primary Examiner Art Unit 2637

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